

SUBSTITUTE ABSTRACT

IR-2281 (2-3807)

5                    TEMPERATURE COMPENSATED BANDGAP VOLTAGE REFERENCE

ABSTRACT OF THE DISCLOSURE

10                    A bandgap voltage reference circuit comprising a first circuit providing a first voltage representative of substantially proportional to  $V_{be}$  of a first bipolar transistor, a second circuit providing a second voltage  $\Delta V_{be}$  representative of substantially proportional to the difference of two  $V_{be}$  voltages of two bipolar transistors, and a comparator having respective inputs receiving voltages representative of coupled to  $V_{be}$  and  $\Delta V_{be}$  and an output coupled to the base of the first bipolar transistor whereby a voltage representative of substantially proportional to the sum of respective constants multiplying  $V_{be}$  and  $\Delta V_{be}$  is provided at the output of the comparator.